



**GOLDER**

# **P4 Production, L.L.C. Soda Springs Elemental Phosphorus Plant**

**SRI/FFS KICK-OFF SCOPING MEETING WITH EPA/IDEQ**

May 14, 2021

# **AGENDA**

**Introductions**

**EPA/IDEQ Expectations for Scoping**

**Overview of Groundwater Conditions**

**On-Going and Planned Work**

**Schedule**

# Introductions and Roles

- **EPA**
- **IDEQ**
- **P4**
- **Golder**



# **EPA/IDEQ Expectations**

# Work Product Development

2021

- Data Analysis, Review of Target Analytes and Preliminary Conceptual Site Model
- Identification of Data Gaps/Needs
- Identification of Preliminary ARARs
- Identification of Preliminary RAOs
- Work Plan Development
- Preliminary Remedial Alternatives




# Groundwater Conditions

# Groundwater Conditions (Overview)

2020

- Extensive investigation, sampling, and testing work over last 10 years
- Source Areas/COC's & Release Mechanisms
- Groundwater Zones and Fault Influences Updated
- Groundwater Flow Directions (Transport and Receptors)
- COC Plume Extents and Trends
- Plume Migration from Neighbouring Site
- UBZ-2 Pumpback Wells Operations
- Preliminary Hydrogeologic CSM formulated based on on-going work
- *Pending Submittal - 2020 Draft Annual Water Quality Report*



# **P4 On-Going & Planned Work**



# On-Going & Planned Work

2021

- **Groundwater and Surface Water Quality Sampling**
  - May 24 to June 10
  - Work Plan submitted – similar to 2020 sampling program
  - November sampling of selected wells south of Plant anticipated
- **Extended UBZ-1 and UBZ-2 Pumping Test**
  - On-going – pumping to Plant consumptive circuit
  - Pumping rates, groundwater levels, water quality, streamflow
  - Work Plan in place
- **UBZ-3 and UBZ-4 Groundwater Level Monitoring**
  - Extensive transducer network in monitoring wells to determine effects of Plant Wells and Pump Back wells
  - Monitoring began in parallel with Extended Pumping Test and installation of new monitoring wells in 2018
- **TW-101 Pumping Test**
  - Work Plan in internal draft
  - Evaluate feasibility of groundwater capture in UBZ-4 upgradient of Plant Wells

# On-Going & Planned Work

2021

- **Demonstration Selenium Water Treatment Plant**
  - Work Plan submitted for Start-Up
  - Transition pumpback water to Se Plant in Q2/Q3
  - On-going flow, water level and groundwater quality monitoring
- **Test Well, Monitoring Well, and Streamflow Program**
  - Two UBZ-2 Source Area Test Wells and Short/Long-Term Pumping Tests
  - Two UBZ-2 Source Area Monitoring Wells
  - Replace 2 UBZ-1 Monitoring Wells
  - Establish weirs in Mormon and Soda Creek (flow reduced segments)
  - Goal – to evaluate feasibility of UBZ-2 Source Area plume control
  - Work Plan in internal draft



# Schedule

# Schedule – To Be Developed

2021

- **Annual Water Quality Sampling/Data Summary Report**
- **Near-Term Deliverables**
  - Preliminary CSM
  - Data Gaps/Data Needs
  - Preliminary RAO's
  - Preliminary ARAR's
  - Preliminary Remedial Alternatives
- **Medium Term Deliverables**
  - SRI Work Plan/SAP/FSP/QAPP/HSP
  - FFS Work Plan
- **Site Visit**
- **Regular Meetings**



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